AUTHOR INDEX

ABRAHAMS V.C., LYNN B. & RICHMOND F.J.R. Organization and sensory properties of small myelinated fibres in the dorsal cervical rami of the cat. 177

AHLSÉN G., LINDSTRÖM S. & LO F.-S. Inhibition from the brain stem of inhibitory interneurones of the cat's dorsal lateral geniculate nucleus. 593

AICKIN C. Claire, BRADING Alison F. & BURDYGA Th.V. Evidence for sodium–calcium exchange in the guinea-pig ureter. 411

ALBRECHT Duane G., FARRAR Susan B. & HAMILTON David B. Spatial contrast adaptation characteristics of neurones recorded in the cat's visual cortex. 713

ALMERS W., ROBERTS W.M. & RUFF R.L. Voltage clamp of rat and human skeletal muscle: measurements with an improved loose-patch technique. 751

BADER C.R. & BERTRAND D. Effect of changes in intra- and extracellular sodium on the inward (anomalous) rectification in salamander photoreceptors. 611

BERTRAND D. *see* BADER C.R. & BERTRAND D. Effect of changes in intra- and extracellular sodium on the inward (anomalous) rectification in salamander photoreceptors. 611

BOURNE P.K. & COSSINS A.R. Sodium and potassium transport in trout (*Salmo gairdneri*) erythrocytes. 361

BRADING Alison F. *see* AICKIN C. Claire, BRADING Alison F. & BURDYGA Th.V. Evidence for sodium–calcium exchange in the guinea-pig ureter. 411

BURDYGA Th.V. *see* AICKIN C. Claire, BRADING Alison F. & BURDYGA Th.V. Evidence for sodium–calcium exchange in the guinea-pig ureter. 411

BUSIJA David W. & HEISTAD Donald D. Effects of activation of sympathetic nerves on cerebral blood flow during hypercapnia in cats and rabbits. 35

CANHAM Peter B., POTTER Richard F. & WOO Dennis Geometric accommodation between the dimensions of erythrocytes and the calibre of heart and muscle capillaries in the rat. 697

CHAD John, ECKERT Roger & EWALD Douglas Kinetics of calcium-dependent inactivation of calcium current in voltage-clamped neurones of *Aplysia californica*. 279

CLAPHAM D.E. & NEHER E. Substance P reduces acetylcholine-induced currents in isolated bovine chromaffin cells. 255

COSSINS A.R. *see* BOURNE P.K. & COSSINS A.R. Sodium and potassium transport in trout (*Salmo gairdneri*) erythrocytes. 361

DE HEMPTINNE A. & HUGUENIN F. The influence of muscle respiration and glycolysis on surface and intracellular pH in fibres of the rat soleus. 581

DONOGHUE S., FELDER R.B., JORDAN D. & SPYER K.M. The central projections of carotid baroreceptors and chemoreceptors in the cat: a neurophysiological study. 397

ECKBERG Dwain L., MOHANTY Sujit K. & RACZKOWSKA Magdalena Trigeminal–baroreceptor reflex interactions modulate human cardiac vagal efferent activity. 75

ECKERT Roger *see* CHAD John, ECKERT Roger & EWALD Douglas Kinetics of calcium-dependent inactivation of calcium current in voltage-clamped neurones of *Aplysia californica*. 279

EICHENBERGER A. & RÜEGG D.G. Relation between the specific H reflex facilitation preceding a voluntary movement and movement parameters in man. 545

EWALD Douglas *see* CHAD John, ECKERT Roger & EWALD Douglas Kinetics of calcium-dependent inactivation of calcium current in voltage-clamped neurones of *Aplysia californica*. 279

FALEMPIN M. & ROUSSEAU J.P. Activity of lingual, laryngeal and oesophageal receptors in conscious sheep. 47

FARRAR Susan B. *see* ALBRECHT Duane G., FARRAR Susan B. & HAMILTON David B. Spatial contrast adaptation characteristics of neurones recorded in the cat's visual cortex. 713

FELDER R.B. *see* DONOGHUE S., FELDER R.B., JORDAN D. & SPYER K.M. The central projections of carotid baroreceptors and chemoreceptors in the cat: a neurophysiological study. 397

FELDMAN J.L., MCCRIMMON D.R. & SPECK D.F. Effect of synchronous activation of medullary inspiratory bulbo-spinal neurones on phrenic nerve discharge in cat. 241

FLEMING Peter J., GONCALVES Arthur L., LEVINE Michael R. & WOOLLARD Susan The development of stability of respiration in human infants: changes in ventilatory responses to spontaneous sighs. 1

FONNUM Frode, MÆHLEN Jan & NJÅ Arild Functional, structural and chemical correlates of sprouting of intact preganglionic sympathetic axons in the guinea-pig. 741

GONCALVES Arthur L. *see* FLEMING Peter J., GONCALVES Arthur L., LEVINE Michael R. & WOOLLARD Susan The development of stability of respiration in human infants: changes in ventilatory responses to spontaneous sighs. 1

GUERTZENSTEIN P.G. & LOPES O.U. Cardiovascular responses evoked from the nicotine-sensitive area on the ventral surface of the medulla oblongata in the cat. 345

GUSTAFSSON B. & MCCREA D. Influence of stretch-evoked synaptic potentials on firing probability of cat spinal motoneurones. 431

HAMILTON David B. *see* ALBRECHT Duane G., FARRAR Susan B. & HAMILTON David B. Spatial contrast adaptation characteristics of neurones recorded in the cat's visual cortex. 713

HARTMANN Peter E., WHITELY Justin L. & WILLCOX David L. Lactose in plasma during lactogenesis, established lactation and weaning in sows. 453

HEISTAD Donald D. *see* BUSIJA David W. & HEISTAD Donald D. Effects of activation of sympathetic nerves on cerebral blood flow during hypercapnia in cats and rabbits. 35

HIRANO Tomoo, TAKAHASHI Kunitaro & YAMASHITA Naohide Determination of excitability types in blastomeres of the cleavage-arrested but differentiated embryos of an ascidian. 301

HIRANO Tomoo & TAKAHASHI Kunitaro Comparison of properties of calcium channels between the differentiated 1-cell embryo and the egg cell of ascidians. 327

HUGUENIN F. *see* DE HEMPTINNE A. & HUGUENIN F. The influence of muscle respiration and glycolysis on surface and intracellular pH in fibres of the rat soleus. 581

ISHIDA Yukisato, TAKAGI Keiko & URAKAWA Norimoto Tension maintenance, calcium content and energy production of the taenia of the guinea-pig caecum under hypoxia. 149

JANSSENS Walter & VERHAEGHE Raymond Sources of calcium used during α_1- and α_2-adrenergic contractions in canine saphenous veins. 525

JORDAN D. *see* DONOGHUE S., FELDER R.B., JORDAN D. & SPYER K.M. The central projections of carotid baroreceptors and chemoreceptors in the cat: a neurophysiological study. 397

LANDMESSER Lynn T. & O'DONOVAN Michael J. Activation patterns of embryonic chick hind limb muscles recorded *in ovo* and in an isolated spinal cord preparation. 189

LANDMESSER Lynn T. & O'DONOVAN Michael J. The activation patterns of embryonic chick motoneurones projecting to inappropriate muscles. 205

LEVINE Michael R. *see* FLEMING Peter J., GONCALVES Arthur L., LEVINE Michael R. & WOOLLARD Susan The development of stability of respiration in human infants: changes in ventilatory responses to spontaneous sighs. 1

LIEBMAN P.A., MUELLER P. & PUGH JR E.N. Protons suppress the dark current of frog retinal rods. 85

LINDSTRÖM S. *see* AHLSÉN G., LINDSTRÖM S. & LO F.-S. Inhibition from the brain stem of inhibitory interneurones of the cat's dorsal lateral geniculate nucleus. 593

LO F.-S. *see* AHLSÉN G., LINDSTRÖM S. & LO F.-S. Inhibition from the brain stem of inhibitory interneurones of the cat's dorsal lateral geniculate nucleus. 593

LOPES O.U. *see* GUERTZENSTEIN P.G. & LOPES O.U. Cardiovascular responses evoked from the nicotine-sensitive area on the ventral surface of the medulla oblongata in the cat. 345

LOW P.A. & TUCK R.R. Effects of changes of blood pressure, respiratory acidosis and hypoxia on blood flow in the sciatic nerve of the rat. 513

LYNN B. *see* ABRAHAMS V.C., LYNN B. & RICHMOND F.J.R. Organization and sensory properties of small myelinated fibres in the dorsal cervical rami of the cat. 177

MCCREA D. *see* GUSTAFSSON B. & MCCREA D. Influence of stretch-evoked synaptic potentials on firing probability of cat spinal motoneurones. 431

MCCRIMMON D.R. *see* FELDMAN J.L., MCCRIMMON D.R. & SPECK D.F. Effect of synchronous activation of medullary inspiratory bulbo-spinal neurones on phrenic nerve discharge in cat. 241

MANN G.E. & YUDILEVICH D.L. Discrimination of parallel neutral amino acid transport systems in the basolateral membrane of cat salivary epithelium. 111

MARTINEZ Flavio & REYES Jose L. Prostaglandin receptors and hormonal actions on water fluxes in cultured canine renal cells (MDCK line). 533

MÆHLEN Jan *see* FONNUM Frode, MÆHLEN Jan & NJÅ Arild Functional, structural and chemical correlates of sprouting of intact preganglionic sympathetic axons in the guinea-pig. 741

MEYERS D.E.R. & SNOW P.J. Somatotopically inappropriate projections of single hair follicle afferent fibres to the cat spinal cord. 59

MOHANTY Sujit K. *see* ECKBERG Dwain L., MOHANTY Sujit K. & RACZKOWSKA Magdalena Trigeminal–baroreceptor reflex interactions modulate human cardiac vagal efferent activity. 75

MUELLER P. *see* LIEBMAN P.A., MUELLER P. & PUGH JR E.N. Protons suppress the dark current of frog retinal rods. 85

NEHER E. *see* CLAPHAM D.E. & NEHER E. Substance P reduces acetylcholine-induced currents in isolated bovine chromaffin cells. 255

NJÅ Arild *see* FONNUM Frode, MÆHLEN Jan & NJÅ Arild Functional, structural and chemical correlates of sprouting of intact preganglionic sympathetic axons in the guinea-pig. 741

O'DONOVAN Michael J. *see* LANDMESSER Lynn T. & O'DONOVAN Michael J. Activation patterns of embryonic chick hind limb muscles recorded *in ovo* and in an isolated spinal cord preparation. 189

O'DONOVAN Michael J. *see* LANDMESSER Lynn T. & O'DONOVAN Michael J. The activation patterns of embryonic chick motoneurones projecting to inappropriate muscles. 205

PAISLEY A.C. & SUMMERLEE A.J.S. Activity of putative oxytocin neurones during reflex milk ejection in conscious rabbits. 465

POTTER Richard F. *see* CANHAM Peter B., POTTER Richard F. & WOO Dennis Geometric accommodation between the dimensions of erythrocytes and the calibre of heart and muscle capillaries in the rat. 697

POZNANSKY M.J. & STEELE Joy A. Membrane electrical properties of developing fast-twitch and slow-tonic muscle fibres of the chick. 633

PUGH JR E.N. *see* LIEBMAN P.A., MUELLER P. & PUGH JR E.N. Protons suppress the dark current of frog retinal rods. 85

RACK P.M.H. & WESTBURY D.R. Elastic properties of the cat soleus tendon and their functional importance. 479

RACZKOWSKA Magdalena *see* ECKBERG Dwain L., MOHANTY Sujit K. & RACZKOWSKA Magdalena Trigeminal–baroreceptor reflex interactions modulate human cardiac vagal efferent activity. 75

REYES Jose L. *see* MARTINEZ Flavio & REYES Jose L. Prostaglandin receptors and hormonal actions on water fluxes in cultured canine renal cells (MDCK line). 533

RIBCHESTER Richard R. & TAXT Torfinn Repression of inactive motor nerve terminals in partially denervated rat muscle after regeneration of active motor axons. 497

RICHMOND F.J.R. *see* ABRAHAMS V.C., LYNN B. & RICHMOND F.J.R. Organization and sensory properties of small myelinated fibres in the dorsal cervical rami of the cat. 177

ROBERTS W.M. *see* ALMERS W., ROBERTS W.M. & RUFF R.L. Voltage clamp of rat and human skeletal muscle: measurements with an improved loose-patch technique. 751

ROUSSEAU J.P. *see* FALEMPIN M. & ROUSSEAU J.P. Activity of lingual, laryngeal and oesophageal receptors in conscious sheep. 47

RÜEGG D.G. *see* EICHENBERGER A. & RÜEGG D.G. Relation between the specific H reflex facilitation preceding a voluntary movement and movement parameters in man. 545

RUFF R.L. *see* ALMERS W., ROBERTS W.M. & RUFF R.L. Voltage clamp of rat and human skeletal muscle: measurements with an improved loose-patch technique. 751

SAKMANN B. & TRUBE G. Conductance properties of single inwardly rectifying potassium channels in ventricular cells from guinea-pig heart. 641

SAKMANN B. & TRUBE G. Voltage-dependent inactivation of inward-rectifying single-channel currents in the guinea-pig heart cell membrane. 659

SCHWARZ M., SONTAG K.-H. & WAND P. Sensory–motor processing in substantia nigra pars reticulata in conscious cats. 129

SEWELL William F. The relation between the endocochlear potential and spontaneous activity in auditory nerve fibres of the cat. 685

SMITH Dean O. Acetylcholine storage, release and leakage at the neuromuscular junction of mature adult and aged rats. 161

SMITH Peter A. Examination of the role of the electrogenic sodium pump in the adrenaline-induced hyperpolarization of amphibian neurones. 377

SNEDDON P. & WESTFALL D.P. Pharmacological evidence that adenosine triphosphate and noradrenaline are co-transmitters in the guinea-pig vas deferens. 561

SNOW P.J. *see* MEYERS D.E.R. & SNOW P.J. Somatotopically inappropriate projections of single hair follicle afferent fibres to the cat spinal cord. 59

SONTAG K.-H. *see* SCHWARZ M., SONTAG K.-H. & WAND P. Sensory–motor processing in substantia nigra pars reticulata in conscious cats. 129

SPECK D.F. *see* FELDMAN J.L., MCCRIMMON D.R. & SPECK D.F. Effect of synchronous activation of medullary inspiratory bulbo-spinal neurones on phrenic nerve discharge in cat. 241

SPYER K.M. *see* DONOGHUE S., FELDER R.B., JORDAN D. & SPYER K.M. The central projections of carotid baroreceptors and chemoreceptors in the cat: a neurophysiological study. 397

STEELE Joy A. *see* POZNANSKY M.J. & STEELE Joy A. Membrane electrical properties of developing fast-twitch and slow-tonic muscle fibres of the chick. 633

SUMMERLEE A.J.S. *see* PAISLEY A.C. & SUMMERLEE A.J.S. Activity of putative oxytocin neurones during reflex milk ejection in conscious rabbits. 465

TAKAGI Keiko *see* ISHIDA Yukisato, TAKAGI Keiko & URAKAWA Norimoto Tension maintenance, calcium content and energy production of the taenia of the guinea-pig caecum under hypoxia. 149

TAKAHASHI Kunitaro *see* HIRANO Tomoo, TAKAHASHI Kunitaro & YAMASHITA Naohide Determination of excitability types in blastomeres of the cleavage-arrested but differentiated embryos of an ascidian. 301

TAKAHASHI Kunitaro *see* HIRANO Tomoo & TAKAHASHI Kunitaro Comparison of properties of calcium channels between the differentiated 1-cell embryo and the egg cell of ascidians. 327

TAXT Torfinn *see* RIBCHESTER Richard R. & TAXT Torfinn Repression of inactive motor nerve terminals in partially denervated rat muscle after regeneration of active motor axons. 497

TRUBE G. *see* SAKMANN B. & TRUBE G. Conductance properties of single inwardly rectifying potassium channels in ventricular cells from guinea-pig heart. 641

TRUBE G. *see* SAKMANN B. & TRUBE G. Voltage-dependent inactivation of inward-rectifying single-channel currents in the guinea-pig heart cell membrane. 659

TUCK R.R. *see* LOW P.A. & TUCK R.R. Effects of changes of blood pressure, respiratory acidosis and hypoxia on blood flow in the sciatic nerve of the rat. 513

URAKAWA Norimoto *see* ISHIDA Yukisato, TAKAGI Keiko & URAKAWA Norimoto Tension maintenance, calcium content and energy production of the taenia of the guinea-pig caecum under hypoxia. 149

VERHAEGHE Raymond *see* JANSSENS Walter & VERHAEGHE Raymond Sources of calcium used during α_1- and α_2-adrenergic contractions in canine saphenous veins. 525

WALLÉN Peter & WILLIAMS Thelma L. Fictive locomotion in the lamprey spinal cord *in vitro* compared with swimming in the intact and spinal animal. 225

WAND P. *see* SCHWARZ M., SONTAG K.-H. & WAND P. Sensory–motor processing in substantia nigra pars reticulata in conscious cats. 129

WESTBURY D.R. *see* RACK P.M.H. & WESTBURY D.R. Elastic properties of the cat soleus tendon and their functional importance. 479

WESTFALL D.P. *see* SNEDDON P. & WESTFALL D.P. Pharmacological evidence that adenosine triphosphate and noradrenaline are co-transmitters in the guinea-pig vas deferens. 561

WHITELY Justin L. *see* HARTMANN Peter E., WHITELY Justin L. & WILLCOX David L. Lactose in plasma during lactogenesis, established lactation and weaning in sows. 453

WILLCOX David L. *see* HARTMANN Peter E., WHITELY Justin L. & WILLCOX David L. Lactose in plasma during lactogenesis, established lactation and weaning in sows. 453

WILLIAMS Thelma L. *see* WALLÉN Peter & WILLIAMS Thelma L. Fictive locomotion in the lamprey spinal cord *in vitro* compared with swimming in the intact and spinal animal. 225

WOO Dennis *see* CANHAM Peter B., POTTER Richard F. & WOO Dennis Geometric accommodation between the dimensions of erythrocytes and the calibre of heart and muscle capillaries in the rat. 697

WOOLLARD Susan *see* FLEMING Peter J., GONCALVES Arthur L., LEVINE Michael R. & WOOLLARD Susan The development of stability of respiration in human infants: changes in ventilatory responses to spontaneous sighs. 1

YAMASHITA Naohide *see* HIRANO Tomoo, TAKAHASHI Kunitaro & YAMASHITA Naohide Determination of excitability types in blastomeres of the cleavage-arrested but differentiated embryos of an ascidian. 301

YASUI S. & YOUNG L.R. On the predictive control of foveal eye tracking and slow phases of optokinetic and vestibular nystagmus. 17

YOUNG L.R. *see* YASUI S. & YOUNG L.R. On the predictive control of foveal eye tracking and slow phases of optokinetic and vestibular nystagmus. 17

YUDILEVICH D.L. *see* MANN G.E. & YUDILEVICH D.L. Discrimination of parallel neutral amino acid transport systems in the basolateral membrane of cat salivary epithelium. 111